# FORM PTO-1082 TRANSMITTAL FOR NEW U.S. PATENT APPLICATION



Assistant Commissioner for Patents
Washington, D.C. 20231

**BOX APPLICATIONS** 

Re: New U.S. Patent Application

For:

AN EMERGENCY INFORMING APPARATUS AND

AN EMERGENCY INFORMING SYSTEM

Inventor(s):

Kenji YOSHIOKA

Attorney Docket: 0102/0108

Sir:

Attached hereto is the application identified above, including 25 pages of textual specification including 16 claims, and 7 sheets of drawings.

The Government filing fee is calculated as follows:

|   | (Col 1)   |       | (Col 2) | (Col 3)                                | SMALI   | LENTITY | NON-S    | MALL ENTITY |
|---|-----------|-------|---------|--|---------|---------|----------|-------------|
| C   | NO. FILED |       | 10 m    | NO. EXTRA                              | RATE    | FEE     | OR RATE  | FEE         |
| TOTAL   | 16        | minus | 20      |  | x9=     | 0       | x18=     | \$          |
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|      | Claim<br>[ ] is<br>[ ] wi  | filed herewith;  Il be filed at a later date; as filed in the parent application. |  |  |  |
|------|--|---|--|--|--|
| [XX] | Foreign priority is claimed under 35 U.S.C. § 119 from Japanese Pat Application No. 11-94287 dated March 31, 1999. |   |  |  |  |
|      | [ ]  | Priority document(s) will be submitted at a later date.                           |  |  |  |

| []   | There is no claim to foreign priority under 35 U.S.C. § 119.  |  |  |  |  |  |
|------|---|--|--|--|--|--|
| [XX] | Executed Declaration(s) is/are submitted herewith.  |  |  |  |  |  |
| []   | Executed Declaration(s) will be submitted at a later date pursuant to 37 CFF $\S$ 1.41 and $\S$ 1.53, with an appropriate surcharge under 37 CFR $\S$ 1.16(e).  |  |  |  |  |  |
| []   | Formal drawing(s) is/are attached.  |  |  |  |  |  |
| [XX] | Formal drawing(s) will be submitted at a later date.  |  |  |  |  |  |
| []   | An Information Disclosure Statement, PTO-1449 and reference(s) cited therein is/are submitted.  |  |  |  |  |  |
| [XX] | Assignment document(s) is/are submitted herewith, along with Form PTO-1595; the recordation fee of \$40.00 per document is enclosed herewith.   |  |  |  |  |  |
| [XX] | A check in the amount of \$\frac{730.00}{200}\$ is enclosed. The Commissioner is hereby authorized to charge any deficiency under 37 CFR \hat{\}\\$\\$\ 1.16 or 1.17, or credit any overpayment, to Deposit Account No. 50-0501. A duplicate copy of this form is attached. |  |  |  |  |  |
| []   | No payment is enclosed at this time. Full payment will be made when the executed Declaration is submitted.  |  |  |  |  |  |

[XX] The Commissioner is hereby authorized to charge any fee deficiency, except the filing fee, during the entire pendency of the present application, or credit any overpayment, to Deposit Account No. 50-0501. A duplicate copy of this

Respectfully submitted,

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Date: Mark 24 2000

Form is enclosed.

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#### TITLE OF THE INVENTION

#### AN EMERGENCY INFORMING APPARATUS AND

### AN EMERGENCY INFORMING SYSTEM

### BACKGROUND OF THE INVENTION

5 1. Field of the Invention

This invention relates to an emergency informing apparatus mounted on a vehicle for informing emergency condition data, position data, and identification data of the vehicle in response to a command signal and an 10 emergency informing system including the emergency informing apparatus.

2. Description of the Prior Art

An emergency informing apparatus mounted on a vehicle for informing emergency condition data, position

15 data, and identification data of the vehicle in response to a command signal is known. Such a prior art emergency informing apparatus informs a police, etc. of at least emergency condition data, position data, and identification data of the vehicle in response to a switch.

However, though the prior art emergency informing apparatus includes a wireless telephone communication circuit, it cannot be used for general personal communication.

#### SUMMARY OF THE INVENTION

The aim of the present invention is to provide a

superior emergency informing apparatus and superior emergency informing system.

Moreover, the aim of the present invention is to provide communication in a non-emergency condition with the 5 emergency informing apparatus.

According to the present invention there is provided a first emergency informing apparatus for a vehicle including: a position detecting unit for detecting a position of the emergency informing apparatus in response 10 to a command signal. The first emergency informing apparatus further includes a data generation unit including a memory for generating emergency data including at least identification data of the vehicle from the memory, called party data from the memory, and the position data in 15 response to the command signal. The first emergency informing apparatus further includes a wireless telephone communication unit including: an emergency communicating unit for making a call with the called party data and transmitting the emergency data to a called party indicated 20 by the called party data in response to the command signal; and an ordinary communication unit for providing telephone communication with a desired party in response to a calling demand and telephone communication with a calling party in response to a call from the calling party; and a 25 controlling unit for operating the emergency communication

unit when the command signal is exist and operating the ordinary communication unit when the command signal is inexistent.

The first emergency informing apparatus may further

include an interface unit for interfacing the ordinary

communication unit with an external unit.

Moreover, in this case, a data converting unit for converting data in the telephone communication between the interface unit and the telephone communication unit may be 10 further provided.

The first emergency informing apparatus may further include an automatic dialling unit for registering telephone number data and supplying the calling demand and one of the registered telephone number data to the ordinary communication unit to provide the telephone communication.

The first emergency informing apparatus may further include a hands-free communication unit for providing sound communication between a user and the ordinary communication unit.

According to the present invention there is provided an emergency informing system including: a wireless telephone network including a base station; and an emergency informing apparatus for a vehicle and a predetermined unit for receiving and outputting the

25 emergency data from a telephone communication unit of the

emergency informing apparatus via the wireless telephone network.

The emergency informing apparatus includes: a position detecting unit for detecting a position of the 5 emergency informing apparatus in response to a command signal: a data generation unit including a memory for generating emergency data including at least identification data of the vehicle from the memory, called party data from the memory, and the position data in response to the 10 command signal; and a telephone communication unit. The telephone communication unit includes: an emergency communicating unit for making a call with the called party data and transmitting emergency data to a called party indicated by the called party data in response to the 15 command signal; and an ordinary communication unit for providing telephone communication with a desired third party in response to a calling demand and with a third calling party in response to a call from the third calling party; and a controlling unit for operating the emergency 20 communication unit when the command signal is exist and operating the ordinary communication unit when the command signal is inexistent.

#### BRIEF DESCRIPTION OF THE DRAWINGS

The object and features of the present invention 25 will become more readily apparent from the following

detailed description taken in connection with the accompanying drawings in which:

- Fig. 1 is a block diagram of an emergency informing apparatus according to a first embodiment of this
- 5 invention:
  - Fig. 2 is a block diagram of an emergency informing apparatus according to a second embodiment of this invention:
- Fig. 3 is a block diagram of an emergency informing 10 apparatus according to a third embodiment of this invention:
  - Fig. 4 is a block diagram of an emergency informing apparatus according to a fourth embodiment of this invention:
- 15 Figs. 5 and 6 are block diagrams of modifications of this invention; and
  - Fig. 7 is a block diagram of an emergency informing system of this invention including the emergency informing apparatus.
- 20 The same or corresponding elements or parts are designated with like references throughout the drawings.

# <u>DETAILED DESCRIPTION OF THE INVENTION</u> <FIRST EMBODIMENT>

 $\mbox{ Fig. 1 is a block diagram of an emergency informing} \\ 25 \mbox{ apparatus 1a according to a first embodiment of this}$ 

invention.

The emergency informing apparatus la is mounted on a vehicle. The emergency informing apparatus la includes an emergency switch 3 for generating a command signal to 5 inform a predetermined unit (station) of an emergency condition, a GPS antenna 4 for receiving a GPS signal, a control circuit (microprocessor) 12 for executing controlling to respective circuits in the emergency informing apparatus 1a. a communication control circuit 10 (wireless telephone communication control circuit) 11 for controlling communication with a third party including a predetermined unit (station) such as a terminal in a police station through an antenna 2 via a base station under controlling by the control circuit 12, a gyrocompass 13 for 15 detecting a compass direction of the vehicle, a GPS antenna 4 for receiving the GPS signal, a GPS receiver 16 for calculating its position from the received GPS signal, a position data detection circuit 14 for detecting position data from the GPS receiver 16, the gyrocompass 13, and a 20 yaw rate indicative of a direction changing rate, a memory 15 for storing data indicating occurrence of emergency, a registered number of the vehicle (identification data of the vehicle), called party data such as a telephone number of police, and the name data of the owner of the vehicle.

25 Moreover, the emergency informing apparatus 1a

includes an operation circuit 5 for supplying an operation signal such as a dial signal to the control circuit 12, a hands-free circuit 17, a speaker 6, and a microphone 7.

The hands-free circuit 17, the speaker 6, and the

microphone 7 provide the hands-free communication through the communication control circuit 11 and the antenna 2.

The emergency informing apparatus 1a mounted on a vehicle is used for informing a request for a patrol car, an ambulance car, or a fire engine truck on a motorcar accident or a sudden illness. When a motorcar accident or a sudden illness occurs, the driver depresses the emergency switch 3. In response to this, the emergency informing apparatus 1a automatically makes a call to a police or an emergency information center or the like and transmits data indicating occurrence of (kinds of) emergency, the present position of the vehicle, data of the registered vehicle in response to the emergency switch 3. Moreover, the emergency may be detected by a shock sensor, a thermal sensor, etc.

The control circuit 12 recognizes occurrence of emergency in response to the emergency switch 3. Then, the control circuit 12 supplies a position information demanding signal to the position data detecting circuit 14 and reads called party data, i.e., a telephone number of a police station, etc., identification data of this vehicle

and the data of the owner of this vehicle from the memory
15. The control circuit 12 generates emergency data
including data indicating occurrence of emergency, the
present position data, and the identification data of this
vehicle to supply the emergency data to the communication
control circuit 11.

The communication control circuit 11 makes a call to the predetermined station and when the called party responds the call, i.e., link has been established, the communication control circuit 11 transmits the emergency data via the antenna 2 to a near base station of a wireless telephone network. Further, the emergency data may be forwarded to the station through a public switched telephone network.

The gyrocompass 13 detects the compass direction of the vehicle. The GPS antenna 4 receives a GPS signal and the receiving circuit 16 calculates the present position of the vehicle using the GPS signal. The position data detection circuit 14 receives the compass direction of the vehicle and the present position of the vehicle from the GPS receiving circuit 16. Moreover, the position data detection circuit 14 receives a yaw rate signal from the vehicle to detect a travelling direction. The position data detection circuit 14 supplies the position data

25 including the present position, the compass direction, and

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the travelling direction to the control circuit 12.

Moreover, the control circuit 12 receives a communication request from the operation circuit 5. is, the operation circuit 5 generates an OFF-HOOK signal and a dial signal in response to operation by a driver. The control circuit 12 makes a call to a desired party with the dial signal through the communication control circuit 11 and the antenna 2 when the control circuit does not detect the emergency condition.

Further, the control circuit 12 receives a communication request from the communication control circuit 11. That is, the communication control circuit 11 receives a call from a calling party through a wireless communication network, and the antenna 2. When the link 15 has been established, the control circuit 12 operates the communication control circuit 11 and the hands-free communication circuit 17 to provide voice communication with the speaker 6 and the microphone 7 when the control circuit 12 does not detects the emergency condition.

20 When the control circuit 12 detects the emergency condition during the voice communication, the control circuit 12 disconnects the link and makes a call to the predetermined station to inform the emergency condition.

The hands-free communication circuit 17 provides the hands-free voice communication with the speaker 6 and the

microphone 7 by howling cancelling and echo cancelling operations.

The operation circuit 5 generates a dial signal in response to operation by a driver. The control circuit 12 makes a call to a third party with the dial signal through the communication control circuit 11 and the antenna 2 when the control circuit 12 does not detect the emergency condition.

The control circuit 12 operates the communication

10 control circuit 11, the position detection circuit and the memory 15 to provide the emergency communication portion in response to the emergency switch 3 and operates the communication control circuit 11, the hands-free circuit 17 and th operation circuit 5 to provides an ordinary

15 (non-emergency) communication portion.

#### <SECOND EMBODIMENT>

Fig. 2 is a block diagram of an emergency informing apparatus 1b according to a second embodiment of this invention.

The structure of a second embodiment is substantially the same as that of the first embodiment.

The difference is that an interface circuit 181 replaces the hands-free circuit 17 and the control circuit 12 controls the interface circuit 181. The interface circuit 25 181 provides interfacing between the communication control

circuit 11 and an external terminal 81.

The external terminal 81 generates and supplies a dial signal to the communication control circuit 11 through the interface circuit 181 in response to a request to 5 provide data communication and voice communication with the external terminal 81.

When the control circuit 12 receives the dial signal from the external terminal 81 through the interface circuit 181, the control circuit 12 makes a call to a third party with the dial signal from the external terminal 81 when the control circuit 12 does not detect an emergency condition.

Further, when the communication control circuit 11 receives a call from a calling party through a wireless communication network and the antenna 2 and if the link has been established, the communication control circuit 11 provides data communication or voice communication with the external terminal 81 when the control circuit 12 does not detect an emergency condition.

When the control circuit 12 detects an emergency

condition during the data communication or the voice
communication, the control circuit 12 interrupts the
communication and disconnects the link and makes a call to
the predetermined station to inform the emergency condition
as mentioned above.

The communication between the emergency informing

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apparatus 1b and the network is provided with a general cellular phone system. The communication between communication circuit 11 to the external terminal 81 is performed using sixteen-wire interface signal to provide 5 the voice communication and the data communication.

In this embodiment, the interface circuit 181 is provided, so that the external terminal 81 can perform communication controlling through the interface circuit 181.

Fig. 3 is a block diagram of an emergency informing apparatus 1c according to a third embodiment of this invention.

The structure of a third embodiment is substantially the same as that of the second embodiment. The difference is that a data communication circuit (program) 121 is further provided in the control circuit (microprocessor) 12 and an interface circuit 182 replaces the interface circuit 181. The data communication circuit 121 converts the control signal such as the AT commands (developed by Hayes Microcomputer Products) and data from the control circuit 12 into data to be outputted by the communication control circuit 11 and converts data from the communication control circuit 11 to the control circuit 12 into the data having a data format which is recognized by the control circuit 12.

25 This function is the same as that by the general data

communication adapter. The interface circuit 182 provides connection to supply control signals and data such as the AT command used for modem controlling to the data communication circuit 121.

5 Operation of the third embodiment will be described. The control circuit 12 enters a normal (ordinary) communication mode in the condition other than the emergency condition. When data communication is requested. the external terminal 82 sends a communication request to 10 the control circuit 12. That is, the external terminal 82 generates and supplies a dial signal to the data communication circuit 121 in response to operation by a driver. The data communication circuit 121 makes a call to a third party with the dial signal through the 15 communication control circuit 11 and the antenna 2 when the control circuit 12 does not detect the emergency condition. When the link has been established and the communication condition is established, the data communication circuit 121 informs the external terminal 82 through the interface 20 circuit 182 that the link and the communication condition have been established. Then, the external terminal 82 performs data transmission to the data communication circuit 121. The data communication circuit 121 converts or modulates the data to be transmitted by the

communication control circuit 11. The communication

control circuit 11 transmits the data from the data communication circuit 121.

When the communication control circuit 11 receives
data from the antenna 2, the data communication circuit 121
converts or demodulates the received data into the data to
be supplied to the external terminal 82.

Further, the control circuit 12 receives a communication request from the communication control circuit 11. That is, the communication control circuit 11 receives a call from a calling party through a wireless communication network, and the antenna 2. When the link has been established, the control circuit 12 operates the communication control circuit 11 and the interface circuit 182 to provide voice or data communication with the external terminal 82 when the control circuit 12 does not detect the emergency condition.

When the control circuit 12 detects the emergency condition during the voice or data communication, the control circuit 12 disconnects the link and makes a call to the predetermined station (unit) to inform the emergency condition.

If the communication between the emergency informing apparatus and the network is provided with a cellular phone system, the communication between communication control

25 circuit 11 and the data communication circuit 121 is

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performed using sixteen-wire interface signal. Moreover, the communication between the data communication circuit 121 and the external terminal 82 is provided with the modem interface signal such as the AT command.

As mentioned above, the data communication circuit 121 is further provided as the general data communication adapter or a modem. Moreover, the interface circuit 182 for connecting the data communication circuit 121 to the external terminal 82 is provided. Accordingly, the 10 external terminal 82 can access to the data communication circuit 121 in the ordinary (non-emergency) condition.

In this embodiment, the data communication circuit 121 is provided, so that the external terminal 82 can supplies data communication command to the data 15 communication circuit 121 to access the data communication circuit 121 to provide data communication. <FOURTH EMBODIMENT>

Fig. 4 is a block diagram of an emergency informing apparatus 1d according to a fourth embodiment of this invention.

The structure of a fourth embodiment is substantially the same as that of the first embodiment. The difference is that a memory dial operation circuit 9 replaces the operation circuit 5. The memory dial operation circuit 9 generates the dial signal in response 5

to the driver or the user. Moreover, the memory dial operation circuit 9 registers telephone numbers and automatic dialing signal for generating one of the dial signals directed to one of the registered telephone numbers.

The driver or the user operates the memory dial operation circuit 9 to input a plurality of sets of telephone number data, the registering number, and the name into the control circuit 12. The control circuit 12 stores the data in the memory 15.

The memory dial operation circuit 9 includes a display such an LCD to display data of the registered telephone numbers and the registered names.

When the driver or the user makes the automatic calling, the driver operates the memory dial operation

15 circuit 9. In response to this, the memory dial operation circuit 9 reads the registered telephone number data or the corresponding registered name from the memory 15 via the control circuit 12. The user watches the displayed image and selects one of the registered name or the registered

20 telephone numbers. In response to this, the control circuit 12 reads the selected registered telephone number data and makes a call with the selected telephone number data.

Moreover, the control circuit 12 receives a  $^{25}$  communication request from the communication control

circuit 11. That is, the communication control circuit 11 receives a call from a calling party through a wireless communication network, and the antenna 2. When the link has been established, the control circuit 12 operates the communication control circuit 11 and the hands-free communication circuit 17 to provide voice communication with the speaker 6 and the microphone 7 when the control circuit 12 does not detect the emergency condition.

When the control circuit 12 detects the emergency
10 condition during the voice communication, the control
circuit 12 disconnects the link and makes a call to the
predetermined station to inform the emergency condition.

Moreover, if a connector is provided between the memory dial operation circuit 9 and the control circuit 12, 15 the memory dial operation circuit 9 is detachable. Further, the interface circuit 181 in the third embodiment may be connected to the control circuit 12 with a connector, so that the data communication can be provided with the connector.

20 Moreover, the memory 15 may be provided in the communication control circuit 11.

Modifications will be described.

Figs. 5 and 6 are block diagrams of modifications of this invention. The emergency informing apparatus shown in 25 Fig. 5 shows combination of the first embodiment and the second embodiment. That is, the hands-free circuit 17, the speaker 6, and the microphone 7 are further provided to the emergency informing apparatus shown in Fig. 2.

The emergency informing apparatus shown in Fig. 6

5 shows combination of the first embodiment and the third embodiment. That is, the hands-free circuit 17, the speaker 6, and the microphone 7 are further provided to the emergency informing apparatus shown in Fig. 3.

Fig. 7 is a block diagram of an emergency informing system of this invention including the emergency informing apparatus mentioned above. The emergency informing system includes an emergency informing apparatus 1a, 1b, 1c, 1d, 1e, or 1f, a wireless communication network 104, a wired communication network 102 such as PSTN, and a predetermined station to be called when emergency occurs, such as a police station.

When an emergency condition occurs, the emergency informing apparatus 1a, 1b, 1c, 1d, 1e, or 1f transmits emergency data to the nearest base station (switch station) 101 of the wireless network 104, the base station forwards the emergency data to a terminal 103 of the predetermined station through the wired communication network 102. The terminal of the predetermined station may be coupled with a special transmission line or a special wireless line.

#### WHAT IS CLAIMED IS:

- An emergency informing apparatus for a vehicle comprising:
- 5 position detecting means for detecting a position of said emergency informing apparatus in response to a command signal:

data generation means including storing means for generating emergency data including at least identification data of said vehicle from said storing means, called party data from said storing means, and said position in response to said command signal;

wireless telephone communication means including:

emergency communicating means for making a call

with said called party data and transmitting said emergency
data to a called party indicated by said called party data
in response to said command signal; and

ordinary communication means for providing
telephone communication with a desired party in response to
a calling demand and telephone communication with a calling
party in response to a call from said calling party; and

controlling means for operating said emergency
communication means when said command signal is exist and
operating said ordinary communication means when said
25 command signal is inexistent.

 An emergency informing apparatus as claimed in claim 1, further comprising interface means for interfacing said ordinary communication means with an external unit.

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3. An emergency informing apparatus as claimed in claim 2, further comprising data converting means for converting data in said telephone communication between said interface means and said telephone communication means.

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4. An emergency informing apparatus as claimed in claim 1, further comprising automatic dialling means for registering telephone number data and supplying said calling demand and one of said registered telephone number data to said ordinary communication means to provide said telephone communication.

5. An emergency informing apparatus as claimed in claim 1, further comprising hands-free communication means for providing sound communication between a user and the ordinary communication means.

6. An emergency informing apparatus as claimed in claim 2, further comprising hands-free communication means for providing sound communication between a user and the ordinary communication means.

- An emergency informing apparatus as claimed in claim 3, further comprising hands-free communication means for
   providing sound communication between a user and the ordinary communication means.
- 8. An emergency informing apparatus as claimed in claim 4, further comprising hands-free communication means for providing sound communication between a user and the ordinary communication means.
- An emergency informing system comprising:
   a wireless telephone network including a base
   station; and

emergency informing apparatus for a vehicle including:

position detecting means for detecting a position of said emergency informing apparatus in response to a 20 command signal;

data generation means including storing means for generating emergency data including at least identification data of said vehicle from said storing means, called party data from said storing means, and said position in response to said command signal; and

telephone communication means including:

emergency communicating means for making a call with said called party data and transmitting emergency data to a called party indicated by said called party data in 5 response to said command signal; and

ordinary communication means for providing telephone communication with a desired party in response to a calling demand and with a calling party in response to a call from said calling party; and

10 controlling means for operating said emergency communication means when said command signal is exist and operating said ordinary communication means when said command signal is inexistent; and

a predetermined station for receiving and outputting 15 said emergency data from said telephone communication means via said wireless telephone network.

- An emergency informing system as claimed in claim 9. wherein said emergency informing apparatus further 20 comprises interface means for interfacing said ordinary
  - communication means with an external unit.
- An emergency informing system as claimed in claim 9. wherein said emergency informing apparatus further 25 comprises data converting means for converting data in said

telephone communication between said interface means and said telephone communication means.

- 12. An emergency informing system as claimed in claim 9, wherein said emergency informing apparatus further comprises automatic dialling means for registering telephone number data and supplying said calling demand and one of said registered telephone number data to said ordinary communication means to provide said telephone
  10 communication.
- An emergency informing system as claimed in claim 9, wherein said emergency informing apparatus further comprises hands-free communication means for providing
   sound communication between a user and the ordinary communication means.
- 14. An emergency informing system as claimed in claim 10, wherein said emergency informing apparatus further comprises hands-free communication means for providing sound communication between a user and the ordinary communication means.
- 15. An emergency informing system as claimed in claim 11, 25 wherein said emergency informing apparatus further

comprises hands-free communication means for providing sound communication between a user and the ordinary communication means.

5 16. An emergency informing system as claimed in claim 12, wherein said emergency informing apparatus further comprises hands-free communication means for providing sound communication between a user and the ordinary communication means.

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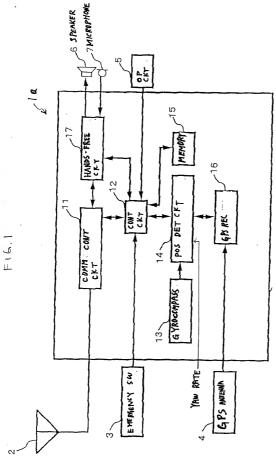
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### ABSTRACT OF THE DISCLOSURE

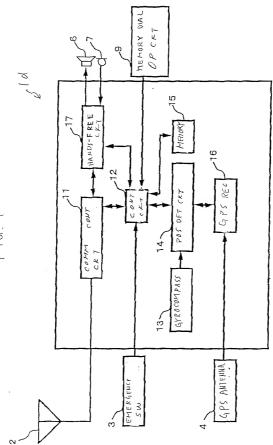
An ordinary telephone communication circuit is provided in addition to the emergency informing circuit in an emergency informing apparatus. In the non-emergency condition, ordinary telephone communication is provided through a wireless communication network. In the emergency condition, the emergency data is transmitted to a predetermined station through the wireless communication network. An interface for transmitting and receiving data is further provided. A data converter for converting data may be provided as a data communication adapter. An automatic dialling circuit may be provided. An emergency informing system including the emergency informing apparatus, the wireless network, and a terminal of a predetermined station for receiving the emergency data from the emergency informing apparatus is also disclosed.

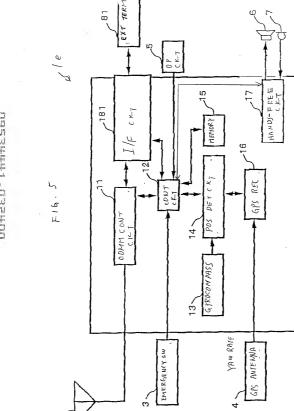




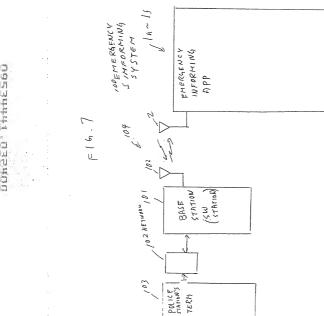
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## **DECLARATION AND POWER OF ATTORNEY**

U.S.A.

Attorney Ref. No.

| As a below-named inventor, I hereby declare: My residence, post office address and citizenship are as stated below next to my name.               |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names |  |  |  |  |  |  |  |
| are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled                               |  |  |  |  |  |  |  |
| AN EMERGENCY INFORMING APPARATUS AND AN EMERGENCY INFORMING SYSTEM , the specification of which   |  |  |  |  |  |  |  |

| one)   | as filed on   | a  | s Application Serial N  | lo.                           |   |  |  |  |
|--|---|--|---|-------------------------------|---|--|--|--|
|  |   |  |   |                               |   |  |  |  |
| and  | was amended   | l on   |   |                               | (if applicable).  |  |  |  |
| I hereby state that I have review<br>by any amendment referred to<br>application under 37 CFR 1.56(a<br>or inventor's certificate listed by<br>present invention, filed before t   | above, and a<br>a). I hereby cla<br>slow and have                 | cknowledge a duty to o<br>aim priority benefits und<br>also identified below | disclose information w<br>der 35 U.S.C. 119 bas<br>any foreign applicatio | which is mate<br>ed on any fo | rial to the examination of this reign application(s) for patent |  |  |  |
| FOREIGN APPLICATION(S), IF ANY, REFERRED TO ABOVE  |   |  |   |                               |   |  |  |  |
| COUNTRY  | APPLI   | CATION NUMBER  | DATE  |                               | PRIORITY CLAIMED  |  |  |  |
| Japan  |   | 11-94287   | March 31, 199   | 99                            | YES X NO  |  |  |  |
|  |   |  |   |                               | YES NO  |  |  |  |
|  |   |  |   |                               | YES NO  |  |  |  |
| and the national or PCT international filing date of this application.  APPLICATION SERIAL NUMBER DATE STATUS  |   |  |   |                               |   |  |  |  |
|  |   |  |   |                               |   |  |  |  |
| I hereby appoint Louis Woo, RN 31,730 and Robert R. Priddy, RN 20,169 as my attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.  Address all communications to LAW OFFICES OF LOUIS WOO, 1901 North Fort Myer Drive, Suite 501, Arlington, Virginia 22209  All statements made herein of my own knowledge are true. All statements made on information and leifed are believed to be true. These statements were made with knowledge that willful false statements and the like so made are punishable by fine, imprisonment. |   |  |   |                               |   |  |  |  |
| or both, under 18 U.S.C. 1001 and may jeopardize the validity of the application or any patent issuing thereon.  Note: Please sign one full given name and your surname, using initials where appropriate for other names. It is important that the name be consistent throughout the application papers. Signing of an application more than five weeks prior to filing or an undated application is not acceptable to the Patent and Trademark Office except for receiving an initial filing date.   |   |  |   |                               |   |  |  |  |
| Full name of inventor  | Kenji Yos   |  | Date: _   | March 17,                     | 2000  |  |  |  |
| Inventor's signature _   |   |  |   |                               |   |  |  |  |
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| ( ) Additional inventors listed  |   |  |   |                               |   |  |  |  |

(Check

Is attached hereto.